WG14 N2206

C Floating Point Study Group Teleconference

March 13, 2018 9 AM PDT / 12 PM EDT

Conference ID: 82968194

Toll-free Dial-in number: 1-888-426-6840 Other (International) Dial In Numbers:

https://www.teleconference.att.com/servlet/glbAccess?process=1&accessCode=82968194&accessNumber=2158616239#C3

Screen sharing: https://apps.na.collabserv.com/meetings/join?id=1950-7849, Password: cfeisdygk

Wiki: http://wiki.edg.com/twiki/bin/login/CFP/WebHome

Draft Agenda

Meeting logistics

Note taker, mail out notes - Rajan

Introduction of attendees

Approval of agenda

Notes from 2018-02-20 meeting

Posted on CFP wiki

Carry-over action items

Jim: Update the binding table in parts 1 and 2 to handle the new IEEE-754:2018 functions when published. - Keep open.

Jim: Re-update activities list.

Action items from 2018-02-20 meeting

Rajan: Ask lan if he knows of someone who can take over the C++ liaison role for him.

Unassigned: C footnote 232 uses the extraordinary roundoff error aspect from IEEE that was taken out in the IEEE 2008 draft. Fix this?

Jim: Add in part of the note for the pow function in part 1 somewhere as a change to F.3 to restate that the specifications should match IEC 60559.

Jim: Get a DR against part 4

for http://wiki.edg.com/pub/CFP/WebHome/DR for missing specification of preferred quantum exponents.pdf.

Fred: Put the words for the roundTiesToEven with a change to Annex F as a part 1 DR as per his note on 2018/02/18 with the change of "which could produce" -> "whose nearest neighbors are".

Jim: http://wiki.edg.com/pub/CFP/WebHome/changes for obsolescing DECIMAL DIG.pdf: Make the changes to the type to reflect the FLT, DBL and LDBL prefixes.

Jim: TS DR15 (http://wiki.edg.com/pub/CFP/WebHome/DR for macros for non-arith formats-

20180211.pdf): Change "Suggested" to "Proposed", "into a proposed" -> "as is into a proposed"

Fred, Rajan: Check if the _Generic replacement suppress macro expansion.

Jim: Get a new N document for the new proposed TC for TS DR16.

Jim: Write up the TS DR13 2018/02/18 Jim's email as a suggested TC.

David: Look into the IEEE binding differences to see if they are real issues (from Fred's email on 2018/02/18).

Study group logistics

Next meeting date: Tuesday, April 10?

TS working drafts with integrated DRs and editor fixes

IEEE 754 revision

C++ liaison

Action item details

C footnote 232 and extraordinary roundoff error – Fred and Jim email Feb 21-22 "Al about underflow and extraordinary roundoff error"

Note to emphaize consistency with IEC 60559 – Jim email Mar 4

DR about roundTiesToEven

Changes for obsolescing DECIMAL_DIG – Jim email Feb 21 "Al

changes_for_obsolescing_DECIMAL_DIG: Make changes to the type_ to reflect the FLT, DBL and LDBL prefixes"

New TC for TS DR 16 – Jim email Feb 24-27 "Al about revised TC for TS DR 16 about tgmath cbrt macro"

TS DR 13 – Jim email Feb 23 "Al write up new suggested TC for DR13"

IEEE binding issues

Issues

Does CR DECIMAL DIG have the same issues as DECIMAL DIG?

Binding for IEEE 754-2018

WG14 paper about updating to IEEE 754:2018 Functions for augmented arithmetic

Min/max functions

Payload functions

Total order functions

C2x integration

Activities

Review activities in progress

Deferred issues

C standard use of "floating" vs "floating-point"